ARVIN RADIOS – MODELS 547 AND 547A

CHASSIS RE – 242; 5 TUBE AC – DC

ALIGNMENT PROCEDURE

PRELIMINARY:

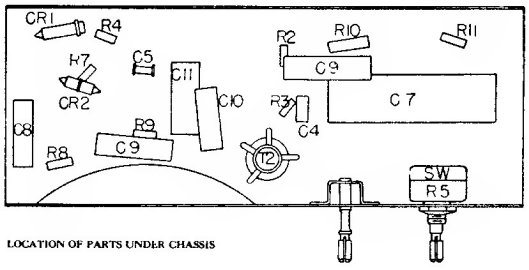
Output meter connection ..... Across loudspeaker voice coil
Output meter reading to indicate 200 milliwatts (standard output) ..... 0.8 volts
Dummy antenna to be used in series with generator output ..... See chart below
Connection of generator output lead ..... See chart below
Connection of generator ground lead ..... Floating ground
Generator modulation ..... 30% 400 cycles
Position of Volume Control ..... Fully clockwise
Position of dial pointer with variable fully closed ..... Horizontal

Place the set loop in the same position with respect to the rear of the chassis, and the same distance from the chassis, as it would be with the set mounted in the cabinet.

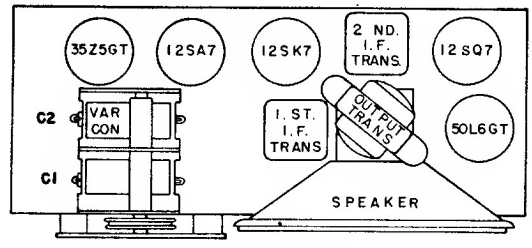
Position of Variable	Frequency of Generator	Dummy Antenna	Generator Output Connection	Trimmers Adjusted In Order Shown For Maximum Output	Function of Trimmer
Open	455	.05 mfd.	12SA7 Grid (Stator of C-1)	Top of 2nd & 1st IF trans. T2 & T1	IF
1400	1400		*Test Loop	C2; C1, Trimmers on Variable Condenser	Osc. Ant.
600	600		*Test Loop	Check Point (If weak, adjust variable plates for maximum output.)	

*Standard Hazeltine Test Loop Model 1150 or 3 turns of wire about 6″ in diameter, placed about one foot from the set loop.

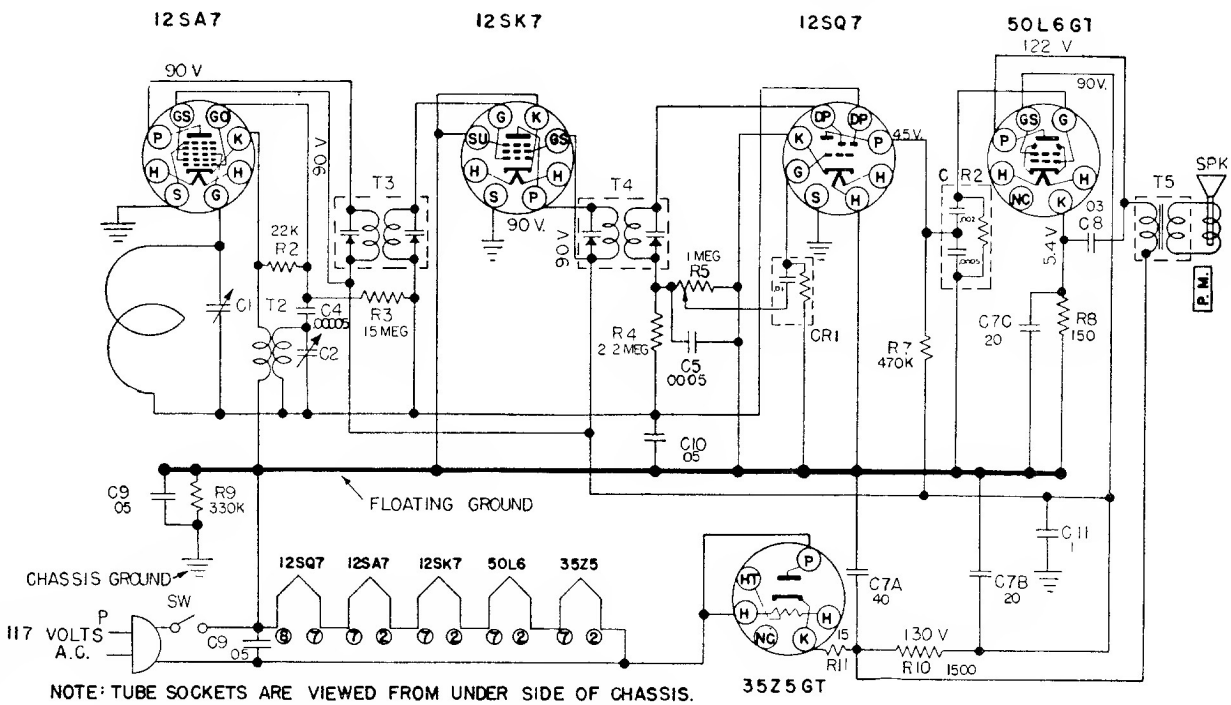
The alignment procedure should be repeated in the original order for greatest accuracy. Always keep the output from the signal generator at its lowest possible value to make the AVC action of the receiver ineffective.



LOCATION OF PARTS UNDER CHASSIS



OUTLINE FOR TUBE LAYOUT



NOTE: TUBE SOCKETS ARE VIEWED FROM UNDER SIDE OF CHASSIS. VOLTAGE READINGS SHOWN AT SOCKET PRONGS ARE TO FLOATING GROUND AND ARE TAKEN WITH NO SIGNAL. A.C. LINE VOLTAGE AT 117 VOLTS. WHERE NO READING IS GIVEN, THE VOLTAGE IS ZERO OR TOO LOW TO READ.